

## 2011 WSU Variety Testing Hard Winter Wheat Trial, Reardan

Variety Name <small>*Hard White Italized</small>	2011								
	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLANT HT	HEAD DATE	LODGING (%)
WA 8120			160	164	60.6	11.1	46	173	20
WA 8119			156	159	59.4	12.0	48	174	17
IDO656				151	62.1	12.7	50	172	25
OR2080111H				144	60.6	11.8	41	169	0
Whetstone	94	109	122	143	63.1	11.6	44	168	0
Altigo				143	58.5	11.8	38	169	0
Eltan (SWW Check)	103	117	139	140	61.6	11.1	44	176	8
WA 8096		119	139	140	60.3	11.5	45	176	18
ML9W05-2501				140	62.8	12.7	48	171	0
Genesi				139	61.8	13.0	41	168	0
Azimut				135	58.4	11.9	37	169	0
WA 8070		110	125	132	63.4	10.8	55	174	17
UI Silver		115	134	131	63.4	10.6	46	171	27
WB-Tucson		103		126	63.8	11.2	43	170	0
Esperia		98	109	123	62.0	12.4	41	168	10
Bauermeister	99	111	126	120	61.7	10.6	44	176	25
OR2080156H			119	119	61.7	11.5	43	173	0
Norwest 553	94	105	117	118	61.4	11.8	39	168	0
WA 8118			111	115	62.4	13.8	53	168	72
IDO835				113	62.8	10.2	43	173	7
MDM	106	118	131	112	61.6	10.3	44	175	7
Boundary	105	115	130	110	62.2	11.7	43	171	3
Finley	90	100	114	108	64.0	12.9	55	171	88
Farnum	90	98	111	108	62.0	13.5	57	174	87
AgriPro Paladin	88	100	115	108	61.7	11.3	40	170	0
Eddy	92	104	117	107	62.9	11.7	45	169	2
Peregrine		105	120	106	63.5	10.9	54	170	23
Accipiter		106	123	106	63.1	11.3	46	174	0
UICF-Grace		93	104	100	62.3	12.1	57	170	13
Hatton	84	89	96	78	65.5	12.2	53	176	17
C.V.	13	10	9	9	0.8	6.8	3	1	115
LSD	7	10	13	22	1.0	1.6	3	2	36
Average	95	106	124	125	62.0	11.7	46	172	16
Highest	106	119	160	164	65.5	13.8	57	176	88
Lowest	84	89	96	78	58.4	10.2	37	168	0

### Reardan Hard Winter Wheat – Preliminary Data

1. Grain yield in the Reardan hard winter wheat trial averaged 125 bushels/acre, 30 bushels/acre higher than the 5-year average. The Reardan nursery was located about 6 miles west of Reardan, WA (Hal Johnson, cooperator).
2. This nursery was seeded on 21 September, 2010 following fallow. Seed was placed at an 85#/acre seeding rate using a double disc plot drill set on 6-inch spacing. Fall seeding conditions were favorable and emergence and stand establishment were good. Base fertilizer was 80#N/acre. A spring soil test showed 260#N/acre available and no additional N was applied for hard wheat protein based on expected yields.
3. Yields ranged from 78 bu/ac to 164 bu/ac. Whetstone was the highest yielding named entry in this trial. All yield values within the 10% LSD range of the highest yield are shown in bold and this included 6 of the 30 entries. The hard white MDM and Boundary were the top yielding hard entries across five years of results at this location. There was stripe rust at this location and a fungicide was applied to the surrounding field via aircraft in early July with an undetermined amount on the plot area. It appears that there was not high rust impact on yield at this location. The Lattice design was 123% efficient compared to an RCBD.
4. Test weights were very good with an average of 62.0 lb/bu and ranged from 58.4 to 65.5 lb/bu. Grain protein averaged 11.7% with a range of 10.2 to 13.8%. Plant height averaged 46 inches and lodging ranged from none to 88%.